AMENDMENTS TO THE CLAIMS

1. (Previously Presented) An isolated DNA comprising a nucleotide sequence encoding

the following polypeptide (a) or (b):

(a) a polypeptide, consisting of an amino acid sequence identical to the amino acid

sequence represented by SEQ ID NO: 2; or

(b) a polypeptide, consisting of an amino acid sequence derived from the amino acid

sequence represented by SEO ID NO: 2 by deletion, substitution, or addition of within one to

twenty amino acids and having N-acetylglucosamine transferase activity.

2. (Previously Presented) An isolated DNA (c) or (d) as follows:

(c) a DNA, comprising the nucleotide sequence represented by SEQ ID NO: 1 and

containing the nucleotide sequence that encodes the amino acid sequence represented by SEO ID

NO: 2; or

(d) a DNA, hybridizing under stringent condition of 1 x SSC, 0.1% SDS and 37 °C to a

DNA consisting of a nucleotide sequence complementary to that of the DNA (c) and encoding a

protein having N-acetylglucosamine transferase activity.

3. (Cancelled)

4. (Previously Presented) An expression vector, comprising the DNA of claim 1 or claim

2.

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5. (Original) A transformant, comprising the vector of claim 4.

6.-17. (Cancelled)

18. (Currently Amended) An isolated polynucleotide, hybridizing under stringent

conditions of 1 x SSC, 0.1% SDS and 37 °C to at least one of the DNA of claim 1 or 2, wherein

the DNA comprises following DNA (a) - (f):

(a) a polypeptide, consisting of an amino acid sequence identical to the amino acid

sequence represented by SEQ ID NO: 2;

(b) a polypeptide, consisting of an amino acid sequence derived from the amino acid

sequence represented by SEQ ID NO: 2 by deletion, substitution, or addition of within one to

twenty amino acids and having N-acetylglucosamine transferase activity;

(c) a DNA, comprising the nucleotide sequence represented by SEO ID NO: 1 and

containing the nucleotide sequence that encodes the amino acid sequence represented by SEQ ID

NO: 2:

(d) a DNA, hybridizing under stringent condition of 1 x SSC, 0.1% SDS and 37 °C to a

DNA consisting of a nucleotide sequence complementary to that of the DNA (c) and encoding a

protein having N-acetylglucosamine transferase activity;

(e) a DNA of claim 1 encoding the amino acid sequence represented by SEQ ID NO: 3

or 4 and consisting of at least 15 nucleotides; and

(f) a DNA, consisting of a nucleotide sequence complementary to that of the DNA (e).

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19. (Previously Presented) The polynucleotide of claim 18, which consists of the

nucleotide sequence encoding the amino acid sequence represented by SEQ ID NO: 3 or 4, or

which consists of the nucleotide sequence which is complementary to the nucleotide sequence

encoding the amino acid sequence of SEQ ID NO: 3 or 4.

20. (Withdrawn) A method for detecting carcinoma using the polynucleotide of claim 18

as a probe, comprising the steps of:

(a) bringing a test sample into contact with the polynucleotide; and

(b) detecting whether the polynucleotide and the test sample hybridize.

21. (Previously Presented) A method for producing a protein comprising culturing the

transformant according to claim 5 and inducing expression of the DNA.

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